NAME OF WORK:-Improvements to roads and drains to Vinayaka nagar and surrounding areas in ward no.11 in Kuvempunagar

First and Final Bill

Quality Control Reports

QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	RCC(M20)	Compressive Strength(7days and 28days)	8 set /200-250 cum	219.66	16	16
10	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	8 set /200-250 cum	235.46	16	16

EXECUTIVE ENGINEER
Vinayakanagara Sub-Division
Bruhat Bangalore Mahanagara Palike

Format No.: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-12-10-28** **Date: 19-04-21**

Project Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/131/2019-20

Date of Receipt : 16-04-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11) 1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 17-04-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Quality Manager

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Certificate No. TC-5548

Format No. CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-12-10-28** **Date: 15-05-21**

Project Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/131/2019-20

Date of Receipt : 16-04-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 17-04-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-10-28** **Date: 19-04-21**
Project Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
Date of Receipt	:	16-04-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-12-10-28** **Date: 19-04-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.17	_

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-10-28** **Date: 19-04-21**
Project Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/131/2019-20
Date of Receipt	:	16-04-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-12-10-28** **Date: 19-04-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-12-10-28**

Date: 19-04-21

Project Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/131/2019-20

Date of Receipt : 16-04-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 16-04-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

b ID : CP-2020-12-10-28 Date: 19-04-21

HYSICAL PROPERTIES

no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	
2	Specific Gravity	2.59	
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

ab ID : **CP-2020-12-10-28** **Date: 18-04-21**

roject Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

gency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

ustomer's Reference : BBMP/EE/BTP/WO/131/2019-20

ate of Receipt : 16-04-21

ample Type : Sunvik

eference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

ate of test: : 16-04-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

	: CP-2020-12-10-28	**Date: 26-04-21**
Name	: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."	
	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
er's Reference	: BBMP/EE/BTP/WO/131/2019-20	
Receipt	: 21-04-21	
Type /Size	: Precast Cover Slab (100mm)	
e to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete	
test	: 21/04/2021	

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Date: 26-04-21

: CP-2020-12-10-28

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 21-04-21

Type /Size : Precast Cover Slab (250mm)

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

test : 21/04/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	200.51	250.48	3.116	31570	573.9	18.2	16.9	21.1
Cover Slab-2	200.49	250.52	3.122	31564	576.9	18.3	17.0	21.2
Cover Slab-3	200.50	250.51	3.118	31567	571.5	18.1	16.8	21.0

sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE KERB STONE

: CP-2020-12-10-28

Date: 27-04-21

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

ner's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 23-04-21

Type /Size : CC Kerb Stone/ 450*165*400mm

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

test : 23/04/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

sults obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 05/05/2021**
ect Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
omer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	30-04-21
omer ID	:	Drain Bottom Slab Concrete (Sai Garden- Main Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	05/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	150.49 X 149.39 X 150.95	22482	**8.568**	414.3	18.4	18.6
Drain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	151.39 X 149.58 X 149.48	22645	**8.773**	418.0	18.5	
Drain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	149.45 X 149.86 X 149.18	22396	**8.251**	420.3	18.8	

esults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-2020-12-10-28**

Date: 26/05/2021

ect Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

omer's Reference : BBMP/EE/BTP/WO/131/2019-20

of Receipt : 30-04-21

omer ID : Drain Bottom Slab Concrete (Sai Garden- Main Road)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 26/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	149.92 X 150.05 X 151.86	22496	**9.004**	520.0	23.1	23.1
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	151.66 X 151.33 X 150.07	22951	**8.835**	514.4	22.4	
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	151.85 X 151.58 X 151.90	23018	**8.533**	548.5	23.8	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 05/05/2021**

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

r's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 30-04-21

r ID : Drain Bottom Slab Concrete (Prakruthi Layout- Main Road)

Type /Size : 150X150X150 mm

Grade/Age : M20 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 05/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	151.46 X 149.67 X 150.05	22669	**8.568**	429.3	18.9	18.5
ain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	150.90 X 151.43 X 149.32	22850	**8.773**	413.8	18.1	
in Bottom Raft Concrete	M20	28/04/2021	05/05/2021	149.15 X 150.29 X 150.73	22415	**8.251**	413.7	18.5	

obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D : **CP-2020-12-10-28** **Date: 26/05/2021**

t Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

y : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

mer's Reference : BBMP/EE/BTP/WO/131/2019-20

f Receipt : 30-04-21

mer ID : Drain Bottom Slab Concrete (Prakruthi Layout- Main Road)

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 26/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	150.03 X 151.01 X 151.08	22656	**9.004**	539.6	23.8	23.3
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	149.38 X 150.60 X 150.80	22496	**8.835**	501.4	22.3	
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	149.04 X 151.33 X 150.77	22554	**8.533**	535.3	23.7	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 08/05/2021**

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 03-05-21

er ID : Drain Side Wall Concrete (Prakruthi Layout- 1st Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 08/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	149.85 X 150.16 X 149.63	22501	**8.946**	406.4	18.1	18.1
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	150.85 X 151.61 X 149.24	22870	**8.204**	413.4	18.1	
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	149.54 X 150.12 X 151.46	22449	**8.816**	406.4	18.1	

ılts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TI/01

Lab ID : CP-2020-12-10-28

Project Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Date: 29/05/2021

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/131/2019-20

Date of Receipt : 03-05-21

Customer ID : Drain Side Wall Concrete (Prakruthi Layout- 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	150.93 X 149.24 X 149.72	22526	**8.175**	528.6	23.5	23.2
	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.56 X 150.08 X 151.84	22446	**8.310**	508.0	22.6	
	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	150.62 X 150.06 X 151.06	22603	**8.765**	530.4	23.5	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/05/2021

b ID	:	**CP-2020-12-10-28**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
stomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	03-05-21
stomer ID	:	Drain Side Wall Concrete (Prakruthi Layout- 1st Cross Road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	08/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	151.97 X 150.83 X 151.08	22923	**8.946**	426.8	18.6	18.6
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	151.28 X 151.31 X 149.96	22890	**8.204**	423.2	18.5	
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	150.34 X 151.12 X 151.03	22719	**8.816**	425.8	18.7	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Certificate No : TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-12-10-28

Date: 29/05/2021

Project Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/131/2019-20

Date of Receipt : 03-05-21

Customer ID : Drain Side Wall Concrete (Prakruthi Layout- 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.76 X 149.99 X 151.61	22464	8.175	533.0	23.7	23.3
2	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	151.72 X 149.39 X 150.25	22666	8.310	509.0	22.5	
3	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.71 X 150.38 X 149.15	22512	8.765	534.7	23.8	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 10/05/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'A' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	05-05-21
tomer ID	:	Drain Side Wall Concrete (Varada raj nagar - 5th Cross Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
e of test	:	10/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	151.67 X 151.78 X 150.50	23020	8.946	430.1	18.7	18.5
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	151.23 X 149.77 X 149.88	22651	8.204	423.4	18.7	
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	150.60 X 151.68 X 151.47	22844	8.816	413.2	18.1	

e results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-12-10-28** **Date: 31/05/2021**
ect Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
cy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
omer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	05-05-21
omer ID	:	Drain Side Wall Concrete (Varada raj nagar - 5th Cross Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	149.12 X 149.54 X 151.24	22299	**8.175**	524.5	23.5	23.0
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	150.04 X 150.54 X 149.01	22586	**8.310**	498.9	22.1	
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	151.34 X 151.76 X 149.66	22968	**8.765**	535.2	23.3	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 10/05/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	05-05-21
tomer ID	:	Drain Side Wall Concrete (Varada raj nagar - Main road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	10/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	150.88 X 149.42 X 149.68	22545	**8.946**	425.4	18.9	18.6
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	149.05 X 151.70 X 149.77	22612	**8.204**	408.3	18.1	
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	151.40 X 149.96 X 149.13	22704	**8.816**	427.1	18.8	

e results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK REGHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/05/2021

b ID	:	**CP-2020-12-10-28**
oject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
stomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
te of Receipt	:	05-05-21
stomer ID	:	Drain Side Wall Concrete (Varada raj nagar - Main road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	151.47 X 149.68 X 149.15	22673	**8.175**	529.8	23.4	23.0
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	150.96 X 150.14 X 151.18	22664	**8.310**	511.4	22.6	
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	151.34 X 149.94 X 150.16	22693	**8.765**	523.5	23.1	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara...

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-12-10-28	Date: 13/05/2021
b ID	: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."	
ject Name	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
ency	: BBMP/EE/BTP/WO/131/2019-20	
tomer's Reference	: 08-05-21	
te of Receipt	: Culvert Bottom Raft Concrete (Sai Garden)	
tomer ID	: 150X150X150 mm	
mple Type /Size	: M20 / 7 Days Compressive Strength	
mple grade/Age	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
ference to BIS codes	: 13/05/2021	
te of test		

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	06/05/2021	13/05/2021	149.26 X 149.57 X 149.58	22324	**8.568**	419.6	18.8	18.8
2	Culvert Bottom Raft Concrete	M20	06/05/2021	13/05/2021	149.08 X 150.33 X 151.10	22411	**8.773**	423.0	18.9	
3	Culvert Bottom Raft Concrete	M20	06/05/2021	13/05/2021	150.27 X 149.88 X 151.36	22523	**8.251**	421.5	18.7	

The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro
Sig.....
Date.....
BANGALORE

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2020-12-10-28 **Date: 03/06/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	08-05-21
tomer ID	:	Culvert Bottom Raft Concrete (Sai Garden)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	03/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Bottom Raft Concrete	M20	06/05/2021	03/06/2021	151.05 X 151.41 X 150.86	22870	**9.004**	538.2	23.5	23.3
Culvert Bottom Raft Concrete	M20	06/05/2021	03/06/2021	151.77 X 151.90 X 151.51	23054	**8.835**	520.3	22.6	
Culvert Bottom Raft Concrete	M20	06/05/2021	03/06/2021	149.32 X 150.87 X 150.66	22528	**8.533**	534.4	23.7	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 17/05/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
omer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	12-05-21
omer ID	:	Culvert Side Wall Concrete (Prakruthi Layout)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	17/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Side Wall Concrete	M20	10/05/2021	17/05/2021	150.73 X 149.91 X 150.08	22596	**8.568**	416.4	18.4	18.4
Culvert Side Wall Concrete	M20	10/05/2021	17/05/2021	151.88 X 150.10 X 150.69	22797	**8.773**	419.5	18.4	
Culvert Side Wall Concrete	M20	10/05/2021	17/05/2021	150.30 X 149.28 X 150.17	22436	**8.251**	414.8	18.5	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/06/2021

b ID	:	CP-2020-12-10-28
oject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
ustomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
ate of Receipt	:	12-05-21
ustomer ID	:	Culvert Side Wall Concrete (Prakruthi Layout)
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	07/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	10/05/2021	07/06/2021	149.66 X 149.17 X 149.78	22325	9.004	515.0	23.1	23.0
2	Culvert Side Wall Concrete	M20	10/05/2021	07/06/2021	149.54 X 150.36 X 150.96	22486	8.835	498.5	22.2	
3	Culvert Side Wall Concrete	M20	10/05/2021	07/06/2021	149.32 X 149.48 X 151.13	22321	8.533	529.1	23.7	

The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 31/05/2021**
ect Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
omer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	26-05-21
omer ID	:	Cement Concrete Pavement (Vinayak Nagar- Bhairaveshwara Swammy Floor Mill)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.12 X 150.20 X 149.28	22398	**8.914**	570.1	25.5	25.5
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	151.83 X 149.72 X 151.40	22733	**9.071**	593.4	26.1	
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	150.83 X 151.30 X 149.23	22820	**8.776**	570.0	25.0	

ults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangaluru Mahanagara Palike

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/06/2021

ID	:	**CP-2020-12-10-28**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	26-05-21
tomer ID	:	Cement Concrete Pavement (Vinayak Nagar- Bhairaveshwara Swammy Floor Mill)
iple Type /Size	:	150X150X150 mm
iple grade/Age	:	M30 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	21/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.76 X 150.13 X 149.69	22633	**8.775**	749.0	33.1	33.0
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	151.25 X 150.22 X 151.60	22720	**8.456**	734.0	32.3	
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	151.85 X 149.23 X 151.12	22661	**9.094**	758.2	33.5	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bangalore Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/05/2021

ID	:	**CP-2020-12-10-28**
ct Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
cy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
mer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	26-05-21
mer ID	:	Cement Concrete Pavement (Vinayak Nagar- Bhairaveshwara Swammy Floor Mill)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.88 X 151.11 X 151.09	22648	**8.914**	588.4	26.0	25.7
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	150.66 X 151.67 X 151.63	22850	**9.071**	607.6	26.6	
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	151.63 X 149.84 X 150.15	22721	**8.776**	556.9	24.5	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2020-12-10-28 **Date: 21/06/2021**

ect Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

omer's Reference : BBMP/EE/BTP/WO/131/2019-20

of Receipt : 26-05-21

omer ID : Cement Concrete Pavement (Vinayak Nagar- Bhairaveshwara Swammy Floor Mill)

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 21/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	151.04 X 149.30 X 151.07	22551	**8.775**	744.9	33.0	33.0
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.80 X 151.03 X 150.95	22775	**8.456**	745.4	32.7	
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.48 X 151.94 X 150.00	22865	**9.094**	758.9	33.2	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/06/2021

D	:	**CP-2020-12-10-28**
ct Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
y	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
mer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	27-05-21
mer ID	:	Cement Concrete Pavement (Varadharaj Nagar- 5th Cross Road)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	01/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.11 X 150.61 X 151.52	22609	**8.914**	576.4	25.5	25.4
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	149.16 X 149.19 X 150.70	22255	**9.071**	590.1	26.5	
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	151.29 X 150.50 X 149.70	22769	**8.776**	552.6	24.3	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT OF CEMENT CONCRETE CUBES

b ID : **CP-2020-12-10-28** **Date: 22/06/2021**

oject Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

ency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

stomer's Reference : BBMP/EE/BTP/WO/131/2019-20

te of Receipt : 27-05-21

stomer ID : Cement Concrete Pavement (Varadharaj Nagar- 5th Cross Road)

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 22/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	150.26 X 149.59 X 149.80	22477	**8.775**	745.5	33.2	33.0
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.89 X 149.68 X 149.09	22735	**8.456**	740.7	32.6	
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	149.72 X 150.53 X 151.24	22537	**9.094**	750.7	33.3	

e results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2020-12-10-28** **Date: 01/06/2021**
ct Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
cy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
mer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	27-05-21
mer ID	:	Cement Concrete Pavement (Varadharaj Nagar- 5th Cross Road)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	01/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.94 X 149.49 X 151.39	22564	**8.914**	585.3	25.9	25.7
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.08 X 150.11 X 150.88	22528	**9.071**	595.3	26.4	
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	151.95 X 151.10 X 150.43	22960	**8.776**	567.6	24.7	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 22/06/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	27-05-21
tomer ID	:	Cement Concrete Pavement (Varadharaj Nagar- 5th Cross Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	22/06/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Cement Concrete Pavement	M30	25/05/2021	22/06/2021	150.69 X 151.96 X 149.87	22900	**8.775**	758.7	33.1	33.1
	Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.49 X 149.16 X 149.92	22597	**8.456**	744.7	33.0	
	Cement Concrete Pavement	M30	25/05/2021	22/06/2021	149.74 X 150.30 X 151.99	22506	**9.094**	748.6	33.3	

e results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-12-10-28	**Date: 02/06/2021**
p	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
t Name	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
	:	BBMP/EE/BTP/WO/131/2019-20
mer's Reference	:	28-05-21
of Receipt	:	Cement Concrete Pavement (Varadharaj Nagar- 7th Cross Road)
mer ID	:	150X150X150 mm
le Type /Size	:	M30 / 7 Days Compressive Strength
le grade/Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
rence to BIS codes	:	
of test	:	02/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	149.02 X 149.20 X 150.80	22234	**8.914**	560.1	25.2	25.3
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	151.57 X 149.13 X 151.76	22605	**9.071**	590.2	26.1	
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	150.12 X 149.43 X 150.75	22433	**8.776**	553.4	24.7	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/06/2021

: CP-2020-12-10-28

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 28-05-21

er ID : Cement Concrete Pavement (Varadharaj Nagar- 7th Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 23/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	149.37 X 151.70 X 150.27	22660	**8.775**	752.0	33.2	33.1
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	149.96 X 149.60 X 149.86	22433	**8.456**	729.2	32.5	
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	150.67 X 150.36 X 150.62	22655	**9.094**	759.3	33.5	

ults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 02/06/2021**

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 28-05-21

er ID : Cement Concrete Pavement (Varadharaj Nagar- 7th Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 02/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	150.34 X 149.71 X 149.17	22507	**8.914**	571.4	25.4	25.5
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	151.10 X 151.25 X 150.28	22855	**9.071**	612.5	26.8	
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	151.33 X 150.33 X 149.13	22750	**8.776**	554.2	24.4	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/06/2021

: CP-2020-12-10-28

me : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Reference : BBMP/EE/BTP/WO/131/2019-20

eipt : 28-05-21

D : Cement Concrete Pavement (Varadharaj Nagar- 7th Cross Road)

e /Size : 150X150X150 mm

de/Age : M30 / 28 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 23/06/2021

entification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement	M30	26/05/2021	23/06/2021	149.73 X 150.75 X 149.10	22572	**8.775**	762.6	33.8	33.1
ent Concrete Pavement	M30	26/05/2021	23/06/2021	149.37 X 151.06 X 150.27	22564	**8.456**	728.0	32.3	
ent Concrete Pavement	M30	26/05/2021	23/06/2021	149.27 X 149.89 X 151.00	22374	**9.094**	740.8	33.1	

obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahana[illegible]

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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WAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
ATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 03/06/2021**

: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Name : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

r's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 29-05-21

er ID : Cement Concrete Pavement (Varadharaj Nagar- 3rd Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 03/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	150.69 X 150.43 X 150.05	22668	**8.914**	574.1	25.3	25.5
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	151.43 X 150.96 X 150.62	22861	**9.071**	606.1	26.5	
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	150.79 X 150.28 X 150.24	22661	**8.776**	559.5	24.7	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-12-10-28** **Date: 24/06/2021**
	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
Name	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
	:	BBMP/EE/BTP/WO/131/2019-20
er's Reference	:	29-05-21
Receipt	:	Cement Concrete Pavement (Varadharaj Nagar- 3rd Cross Road)
er ID	:	150X150X150 mm
Type /Size	:	M30 / 28 Days Compressive Strength
grade/Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ce to BIS codes		
test	:	24/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	150.11 X 150.33 X 149.20	22567	**8.775**	757.9	33.6	33.3
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	151.99 X 149.01 X 150.01	22648	**8.456**	731.9	32.3	
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	151.27 X 150.81 X 151.74	22813	**9.094**	772.3	33.9	

ults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-12-10-28** **Date: 03/06/2021**

: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

eference : BBMP/EE/BTP/WO/131/2019-20

ipt : 29-05-21

: Cement Concrete Pavement (Varadharaj Nagar- 3rd Cross Road)

/Size : 150X150X150 mm

e/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/06/2021

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
nt Concrete avement	M30	27/05/2021	03/06/2021	149.42 X 151.55 X 151.60	22645	**8.914**	576.5	25.5	25.7
nt Concrete avement	M30	27/05/2021	03/06/2021	149.12 X 151.34 X 150.20	22569	**9.071**	602.8	26.7	
nt Concrete avement	M30	27/05/2021	03/06/2021	150.36 X 150.35 X 149.55	22606	**8.776**	564.5	25.0	

tained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Receipt : 29-05-21

r ID : Cement Concrete Pavement (Varadharaj Nagar- 3rd Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 24/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	151.37 X 150.94 X 150.96	22848	**8.775**	773.0	33.8	33.4
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	149.02 X 151.29 X 151.26	22546	**8.456**	731.3	32.4	
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	149.41 X 150.10 X 151.66	22427	**9.094**	760.6	33.9	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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